

ABSTRACT OF THE DISCLOSURE

A biological inoculant for enhancing the growth of plants is disclosed. The inoculant includes the bacterial strains *Herbaspirillum seropedicae* 2A, *Pantoea agglomerans* P101, *Pantoea agglomerans* P102, *Klebsiella pneumoniae* 342, *Klebsiella pneumoniae* zmvsy, *Herbaspirillum seropedicae* Z152, *Gluconacetobacter diazotrophicus* PA15, with or without a carrier. The inoculant also includes strains of the bacterium *Pantoea agglomerans* and *K. pneumoniae* which are able to enhance the growth of cereal grasses. Also disclosed are the novel bacterial strains *Herbaspirillum seropedicae* 2A, *Pantoea agglomerans* P101 and P102, and *Klebsiella pneumoniae* 342 and zmvsy.